

# Selection and Characterization of L-Ethionine Resistant Mutants of *Trichosporon cutaneum*

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*Trichosporon cutaneum* R57 and its L-ethionine resistant mutant NZ94 strain were investigated. The amino acid analyses of cell content of both strains were carried out. The pool of free methionine in the mutant strain is enhanced 16.5 times. The total amount of sulphur-containing amino acids in the mutant cells was significantly increased from 36.8 in the wild strain to 113.4 mg/g protein in the mutant strain. In the process of mutant strain cultivation there was found a high excretion of free methionine (259 µg/ml) in the medium. It was shown that the amino acid content of both wild and mutant strains would be helpful for formulating of new improved animal nutritional diets.

*Key words:* L-Ethionine, Methionine-enriched Mutant, *Trichosporon cutaneum*